



11-15-05

PATENT
674310-2430.1

IPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : PAOLETTI et al
Serial No. : 08/228,926
Filing Date : May 4, 1992
For : MODIFIED VACCINIA VIRUS AND METHODS FOR
MAKING AND USING THE SAME
Examiner : Mary Mosher
Art Unit : 1648
Confirmation No.: 4171

745 Fifth Avenue New York, NY 10151

EXPRESS MAIL

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Date of Deposit: November 14, 2005

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The Examiner's attention is respectfully drawn to the enclosed documents listed on the accompanying PTO Form 1449. Pursuant to 37 CFR §1.97(b)(3), Applicants request the Examiner to consider this Information Disclosure Statement, and to make of record the documents cited on the accompanying PTO form 1449 and that a copy of Form PTO-1449 be initialed by the Examiner and returned to the undersigned.

Also attached is a copy of the non-patent documents and foreign patents cited in the PTO form 1449. The references are being mailed via US Express Mail in two boxes as they were too numerous to send in one box. A complete copy of the Information Disclosure Statement and PTO form 1449 accompanies both boxes of references. In addition, the certificate of mailing for the Information Disclosure Statement lists the US Express Mail Airbill Tracking Number for both boxes.

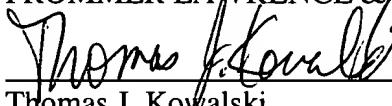
Furthermore, the table below informs the Examiner of the counterpart applications or patents for US Application 08/228,926. The Examiner is invited to obtain a copy of the counterpart applications and patents as necessary. The counterpart applications and patents are:

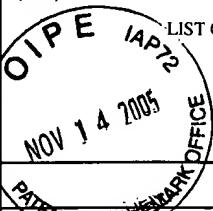
Country	Application No. (Publication No.)	Title
Australia	AU1982000091806 (AU9180682A1)	Vaccinia Virus Incorporating Foreign DNA
Australia	AU1982000091806 (AU0561816B2)	Vaccinia Virus Incorporating Foreign DNA
Austria	AT1982000402380 (AT0050791E)	Modifiziertes Vaccinia Virus Und Verfahren Zu Dessen Herstellung Und Verwendung.
Denmark	DK1982000005724 (DK0572482A)	Modificeret Vaccinia-Virus Og Fremgangsmaade Til Dens Fremstilling Og Anvendelse
Denmark	(DK1982000005724) DK0173927B1	Vaccine Til Anvendelse Til Vaccinering Af Pattedyr Omfattende Rekombinant Kokoppevirus
Europe	EP1982000402380 (EP0083286B2)	Modified Vaccinia Virus And Methods For Making And Using The Same
Europe	EP1982000402380 (EP0083286B1)	Modified Vaccinia Virus And Methods For Making And Using The Same
Europe	EP1982000402380 (EP0083286A3)	Modified Vaccinia Virus And Methods For Making And Using The Same
Europe	EP1982000402380 (EP0083286A2)	Modified Vaccinia Virus And Methods For Making And Using The Same
Germany	EP1982000402380 (DE3280128C0)	Modifiziertes Vaccinia Virus Und Verfahren Zu Dessen Herstellung Und

Country	Application No. (Publication No.)	Title
		Verwendung.
Israel	IL1982000067537 (IL0067537A0)	Modified Vaccinia Virus And Methods For Making And Employing The Same
Italy	IT1982000024948 (IT8224948A0)	Virus Vaccinico Modificato E Metodi Per La Produzione Ed Uso Del Medesimo
Italy	IT1982000024948 (IT1191150A)	Virus Vaccinico Modificato E Metodi Per La Produzione Ed Uso Del Medesimo
Japan	JP1982000234860 (JP58129971A2)	Variant Vactinia Virus, Production And Use Thereof
Japan	JP1982000234860 (JP06071429B4)	<i>Not Available</i>
New Zealand	NZ1982000202833 (NZ0202833A)	Modified Vaccinia Virus: Use As Transfer Vector In Genetic Engineering Technique
Philippines	PH1982000028314 (PH0022658A)	Modified Vaccinia Virus And Method Of Using The Same
South Africa	ZA1982000009386 (ZA8209386A)	Modified Vaccinia Virus And Methods For Making And Using The Same
Switzerland	CH1992000002364 (CH0683921A)	Vaccin À Poxvirus Recombinant Contre Le Virus De La Rougeole..
United States	US1982000446824 (US4603112)	Modified Vaccinia Virus

The filing of this Information Disclosure Statement is not an admission that the documents identified herein constitute prior art to the present application.

It is believed that no fees are required by the instant submission. However, if any fees are required, or if any overpayment has been made, please charge Deposit Acct. No. 50-0320.

Respectfully submitted,
 FROMMER LAWRENCE & HAUG LLP
 By: 
 Thomas J. Kowalski
 Reg. No. 32,147
 Telephone: (212) 588-0800
 Facsimile: (212) 588-0500



LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

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674310-2430.1SERIAL NO.
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	4088748					
AB	4113712					
AC	4129646					
AD	4138287					
AE	4162192					
AF	4237224					
AG	4322499					
AH	4399216					
AI	4603112					
AJ	4663281					
AK	4710463					
AL	4722848					
AM	4736866					
AN	4738846					
AO	4769330					
AP	5110587					
AQ	5155020					
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AS	5204243					
AT	5225336					
AU	5244792					
AV	5338683					
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AX	5378457					
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BA	5494807					
BB	5503834					
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	BD	5514375					
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	BH	5589466					
	BI	5641490					
	BJ	5658572					
	BK	5688920					
	BL	5744140					
	BM	5744141					
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	CF	5990091					
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	CJ	6130066					
	CK	6183750					
	CL	6214353					
	CM	6248333					
	CN	6265189					
	CO	6267965					
	CP	6309647					
	CQ	6340462					
	CR	6395283					
	CS	6537594					
	CT	6596279					
	CU	6605465					
	CV	6632438					
	CW	6780407					

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	CX	2222165		United Kingdom				
	CY	624863		Australia				
	CZ	78906/87		Australia				
	DA	0052002		Europe				
	DB	0162757		Europe				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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							YES	NO
	DC	0216564		Europe				
	DD	0227414		Europe				
	DE	0261940		Europe				
	DF	0262043		Europe				
	DG	0284416		Europe				
	DH	0314569		Europe				
	DI	0324350		Europe				
	DJ	0344804		Europe				
	DK	0352851		Europe				
	DL	0397560		Europe				
	DM	0330781		Europe				
	DN	0/12101		WIPO				
	DO	88/02022		WIPO				
	DP	86/65806		WIPO				
	DQ	88/02027		WIPO				
	DR	89/03879		WIPO				
	DS	89/07644		WIPO				
	DT	89/08716		WIPO				
	DU	89/12684		WIPO				
	DV	8912103		WIPO				
	DW	90/02190		WIPO				
	DX	90/10693		WIPO				
	DY	9208789		WIPO				
		0353851		Europe				
	DZ	9215672		WIPO				

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	EA	Adamowicz, Ph., F. Tron, R. Vinas, M. N. Mevelec, I. Diaz, A. M. Courouce, M. C. Mazert, D. Lagarde and M. Girard, In <i>Viral Hepatitis and Liver Disease</i> , pp. 1087-1090 (1988).
	EB	Adams, J. M., and D. T. Imagawa, <i>Proc. Soc. Exper. Biol. Med.</i> 96, 240-244 (1957).
	EC	Ahn, B-Y. and Moss, B. 1992. RNA polymerase-associated transcription specificity factor encoded by vaccinia virus. <i>Proc. Natl. Acad. Sci.</i> 89: 3536-3540.
	ED	Alexander, D. J. In <i>Diseases of Poultry</i> , 9th edition, eds. B. W. Calnek, H. J. Barnes, C. W. Beard, W. M. Reid and H. W. Yoder, Jr., (Iowa State University Press, Ames, Iowa, USA) pp. 496-519 (1991).
	EE	Alkhatib and Briedis, (1986) <i>Virology</i> , vol. 150, pp. 479-490.
	EF	Alkhatib, G., C. Richardson, and S-H. Shen, <i>Virology</i> 175, 262-270 (1990).
	EG	Allan, W.H., J.T. Faragher, and G.A. Cullen, <i>Vet. Rec.</i> 90, 511-512 (1972).
	EH	Allen, P. and Rapp, F., <i>J. Infect. Dis.</i> 145, 413-421 (1982).
	EI	Allen, G.P. and J.T. Bryans, In: <i>Progress in Veterinary Microbiology and Immunology</i> , vol. 2, ed. R. Pandey (Basel), pp. 78-144 (1986).
	EJ	Almoguera et al., (1988) <i>Cell</i> , vol. 53, pp. 549-554.
	EK	Alp, N. J., T. D. Allport, J. Van Zanken, B. Rodgers, J. G. P. Sissons, and L. K. Borysiewicz, <i>J. Virol.</i> 65, 4812-4820.
	EL	Altenburger, W., C-P. Suter and J. Altenburger, <i>Archives Virol.</i> 105, 15-27 (1989).
	EM	Andrewes et al. (1978) <i>Viruses of Vertebrates</i> . Cassell & Co. Ltd, p. 374.
	EN	Appel, M. J. G., and D. S. Robson, <i>Am. J. Vet. Res.</i> 34, 1459-1463 (1973).
	EO	Appel, M.J.G. and O.R. Jones, <i>Proc. Soc. Exp. Biol. and Med.</i> 126, 571-574 (1967).
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	EQ	Asada et al., (1987) <i>J. Gen. Virol.</i> , vol. 68, pp. 1961-1969.
	ER	Asada et al., (1988) <i>J. Gen. Virol.</i> , vol. 69, pp. 2179-2188.
	ES	Asher, A.L., Mule, J.J., Reichert, C.M., et al., <i>J. Immunol.</i> 138, 963-974 (1987).
	ET	Autran, B., Plata, F., and Debre, P., <i>J. AIDS</i> 4, 361-367 (1991).
	EU	Avery and Niven, (1979) <i>Infect. and Immun.</i> , vol. 26, pp. 795-801.
	EV	Aviv, H., and Leder, P., <i>Proc. Natl. Acad. Sci. USA</i> 69, 1408-1412 (1972).
	EW	Azad et al <i>Vaccines</i> 90 pp. 59-62 (1990) Cold Spring Harbor Laboratory Press, CSH, NY.
	EX	Azad, A.A., K.J. Fahey, S. Barrett, K. Emry and P. Hudson, <i>Virology</i> 149, 190-198 (1986).
	EY	Azad, A.A., M.N. Jagadish, M.A. Brown, and P. Hudson, <i>Virology</i> 161, 145-152 (1987).
	EZ	Babinet et al (1985) <i>science</i> 230, 1160-1163.
	FA	Babiuk, L.A., J. L'Italien, S. van Drunen Littel-van den Hurk, T. Zamb, M.J.P. Lawman, G. Hughes, and G.A. Gifford, <i>J. Virol.</i> 159, 57-66 (1987)
	FB	Baer, R., A.T. Bankier, M.D. Biggin, P.L. Deininger, P.J. Farrell, T.J. Gibson, G. Hatfull, G.S. Hudson, S.C. Satchwell, C. Seguin, P.S. Tuffnell, and B.G. Barrell, <i>Nature</i> 310, 207-211 (1984).
	FC	Baker, J. A., B. E. Sheffy, D. S. Robson, J. Gilmartin, <i>Cornell Vet (USA)</i> 56, 588-594 (1966).
	FD	Balachandran et al., (1982) <i>Infec. Immun.</i> , vol. 37, pp. 1132-1137.
	FE	Ballay, A. et al 1985. The <i>EMBO Journal</i> vol. 4 pp. 3861-3865.

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FG	Baroudy, B. M., Venkatesan, S., and B. Moss, Cell 28, 315-324 (1982).
FF	Baumann, R.P., D.C. Sullivan, J. Staczek, and D.J. O'Callaghan, J. virol. 57, 816-825 (1986).
FH	Baxby, D. In Jenner's Smallpox Vaccine, (Heinemann Educational Books, Ltd., London) pp. 214 (1981).
FI	Baxby, D., Paoletti, E., Vaccine 10, 8-9 (1992).
FJ	Baxendale, W. and Luttkien, Dev. Biol. Stand. 51, 211-219 (1981).
FK	Bayliss et al., Arch. Virol. 120: 193-205 (1991).
FL	Beard et al., (1984) In: Diseases of Poultry, 8th Edition, eds. M.S. Hofstad, pp. 452-470.
FM	Beard, (1979) Avian Diseases, vol. 23, pp. 327-334.
FN	Beattie et al. Journal of Virology, vol. 69, No. 1, Jan. 1995, pp. 499-505.
FQ	Becht, H., H. Muller, and H.K. Muller, J. Gen Virol. 69, 631-640 (1988).
FP	Beisel, C., J. Tanner, T. Matsuo, D. Thorley-Lawson, F. Kezdy, and E. Kieff, J. Virol. 54, 665-674 (1985).
FQ	Ben-Porat and Kaplan, (1970) Virology, vol. 41, pp. 265-273.
FR	Ben-Porat and Kaplan, (1985) In: Herpviruses, vol. 3, pp. 105-173.
FS	Ben-Porat et al., (1979) Virology, vol. 95, pp. 295-294.
FT	Ben-Porat et al., (1986) J. Virol., vol. 57, pp. 191-196.
FU	Ben-Porat, (1982) In: Organization and Replication of Viral DNA, ed. A.S. Kaplan, pp. 147-172.
FV	Bergoin and Dales, (1971) In: Comparative Virology, eds. K. Maramorsch and Kurstak, pp. 169-205.
FW	Berman et al., 1990, Nature 345:622-625.
FX	Berman, P. W., D. Dowbenko, L. A. Lasky, and C. C. Simonsen, Science 222, 524-527 (1983).
FY	Bernards, R., Destree, A., McKenzie, S., Gordon, E., Weinberg, R.A., and Panicali, D., PNAS USA 84, 6854-6858 (1987).
FY	Berns et al., (1990) In: Fields Virology, eds. Fields and Knipe, pp. 1743-1763.
GA	Bertholet et al., (1985) Proc. Natl. Acad. Sci., vol. 82, pp. 2096-2100.
GB	Bestetti, G., . Fatzer, and R. Frankhauser, Acta Neuropathol. 43, 69-75 (1978).
GC	Beveridge, W. I. B. and L. Hart (1985) Animal Health in Australia, vol. 7, p. 58.
GD	Biggin, M., P.J. Farrell, and B.G Barrell, Embo. J. 3, 1083-1090 (1984).
GE	Binns et al (1986) Isr. J. Vet. Med. 42, 124-127.
GF	Bishop et al., (1990) In: Bunyaviridae and Their Replication in Virology, 2.sup.nd Edition, pp. 1155-1173
GG	Black, F. L., L. L. Berman, M. Libel, C. A. Reichelt, F. de P. Pinheiro, A. T. da Rosa, F. Figuera, and E. S. Gonzales, Bull. W.H.O. 62, 315-319 (1984).
GH	Bolvar et al. (1979) Gene 2, 95-113.
GI	Borysiewicz, L.K., J.K. Hickling, S. Graham, J. Sinclair, M.P. Crange, G.L. Smith and F.G. Sissons, J. Exp. Med. 168, 919-931 (1988).
GJ	Boursnell et al. (1984) Virus Res. 1, 303-313.

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GK	Boursnell et al., (1990a) J. Gen. Virol., vol. vol. 71, pp. 621-628.
GL	Boursnell et al., (1990c) Virology, vol. 178, pp. 297-300.
GM	Boyle et al. (1986) J. Gen. Virol. 67, 1591-1600.
GN	Boyle et al. (1988) Virus Research, vol. 10 pp. 343-356.
GO	Boyle et al., (1988) Gene, vol. 65, pp. 123-128.
GP	Bray, M., Zhao, B., Markoff, L., Eckels, K. H., Chanock, R. M., and Lai, C.-J., J. Virol. 63, 2853-2856 (1989).
GQ	Brown, F., Intervirology 25, 141-143 (1986).
GR	Brunda et al., (1993) J. Exp. Med., vol. 178, pp. 1223-1230.
GS	Bruner, D. W. (1963) The pox diseases of man and animals. In: Diseases Transmitted from Animals to Man, (ed. Hull, T. G.), Charles C. Thomas, Publisher p. 394.
GT	Bryson et al., (1983) N. Engl. J. Med., vol. 308, pp. 916-921.
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GW	Buller et al, 1985, Nature, vol. 317, pp. 813-815.
GX	Buller et al., (1988) J. Virol., vol. 62, pp. 866-874.
GY	Buller et al., (1991) J. Microbiol. Rev., vol. 55, pp. 80-122.
GZ	Burkhardt, E. and H. Muller, Archives of Virology 94, 297-303 (1987).
HA	Bush, M., R. J. Montali, D. Brownstein, A. E. James, Jr., and M. J. G. Appel, J. Am. Vet. Med. Assoc. 169, 959-960 (1976).
HB	Buxton, A. (1977) Animal Microbiology. Blackwell Scientific Publications, p. 693.
HC	Bzik et al., (1988) J. Molec. Biochem. Parasitol., vol. 30, pp. 279-288.
HD	Bzik, D. J. et al. 1984. Virology, vol. 133, pp. 301-314.
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HF	Bzik, D.J., C. Debroy, B.A. Fox, N.E. Pederson, and S. Person, Virology 155, 322-333 (1986).
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HJ	Calnek, B.W. and R.L. Witter, In Diseases of Poultry 9th Edition, eds. B.W. Calnek, H.J. Barnes, C.W. Beard, W.M. Reid and H.W. Yoder, Jr. (Iowa State University Press, Ames, Iowa, USA) pp. 342-385 (1991).
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HL	Calnek, B.W., K.A. Schat, L.J.N. Ross, W.R. Shek, and C.-L.H. Chen, Int. J. Cancer 33, 389-398 (1984).
HM	Campione-Piccardo et al. (1979) J. Virol. 31, 281-287.
HN	Cane, P.A., and Gould, E.A., J. Gen. Virol. 70, 557-564 (1989).
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HP	Carpenter, J. W., M. J. G. Appel, R. C. Erickson, and M. N. Novilla, J. Am. Vet. Med. Assoc. 169, 961-964 (1976).

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	HQ	Carroll, K., Elroy Stein, O., Moss, B. and Jagus, R. 1993. Recombinant vaccinia virus K3L gene product prevents activation of double-stranded RNA-dependent, initiation factor 2 alpha-specific protein kinase. <i>J. Biol. Chem.</i> 268: 12837-12842.
	HR	Casadaban, M.J., A. Martinez-Arias, S.K. Shapira, and J. Chow, <i>Methods in Enzymology</i> 100, 293-308 (1983).
	HS	Cassel et al., (1983) <i>Cancer</i> , vol. 52, pp. 856-860.
	HT	Chakrabarti et al., (1985) <i>Mol. Cell. Biol.</i> , vol. 5, pp. 3403-3409.
	HU	Chakrabarti et al., (1986) <i>Nature</i> , vol. 320, pp. 535-537.
	HV	Chambers et al., (1986) <i>J. Gen. Virol.</i> , vol. 67, pp. 2685-2694.
	HW	Chambers et al., (1988) <i>Virology</i> , vol. 167, pp. 414-421.
	HX	Chambers et al., (1990) <i>Ann. Rev. Microbiol.</i> , vol. 44, pp. 649-688.
	HY	Chan, (1983) <i>Immunol.</i> , vol. 49, pp. 343-352.
	HZ	Chang, H-W., Watson, J. and Jacobs, B. L. 1992. The vaccinia virus E3L gene encodes a double-stranded RNA-binding protein with inhibitory activity for the interferon-induced protein kinase. <i>Proc. Natl. Acad. Sci. USA</i> 89: 4825-4829.
	IA	Chang, S.P., Hui, G.S.N. Kato, A., Siddiqui, W.A., <i>Proc. Natl. Acad. Sci. USA</i> 86, 6343-6347 (1989).
	IB	Chang, S.P., Kramer, K.J., Yamaga, K.M., Kato, A., Case, S.E., Siddiqui, W.A., <i>Exp. Para.</i> 67, 1-11 (1988).
	IC	Chappuis, G., C. Benoit-Jeanin, and D. Fargeaud, In: <i>Develop. biol. Standard.</i> , vol. 52, eds. M. Bonneau, and W. Hennessen, (S. Karger, Basel) pp. 485-491 (1982).
	ID	Charles et al., (1991) <i>Infect. Immun.</i> , vol. 59, pp. 1627-1632.
	IE	Chem. Abstracts, 10th Coll. Index, (1977-1981), vols. 86-95, Virus, Animal Vaccinia Virus.
	IF	Chen et al., (1971) <i>J. Gen. Virol.</i> , vol. 11, pp. 53-58.
	IG	Chen et al., (1992) <i>Cell</i> , vol. 71, pp. 1093-1102.
	IH	Cheng et al., (1986) <i>J. Virol.</i> , vol. 60, pp. 337-344.
	II	Cheung, A., Leban, J., Shaw, A.R., Merkli, B., Stocker, J., Chizzolini, C., Sander, C., Perrin, L.H., <i>Proc. Natl. Acad. Sci. USA</i> , 83, 8328-8332 (1986).
	IJ	Child et al., (1990) <i>Virology</i> , vol. 174, pp. 625-629.
	IK	Chirgwin, J. M., Przybyla, A. E., MacDonald, R. J., and Rutter, W. J., <i>Biochemistry</i> 18, 5294-5299 (1979).
	IL	Chisari et al., (1986) <i>J. Virol.</i> , vol. 60, pp. 880-887.
	IM	Choi et al. (1991) <i>J. Virol.</i> 65, 2875-2883.
	IN	Choppin, P. W., C. D. Richardson, D. C. Merz, W. W. Hall, and A. Scheid, <i>J. Infect. Dis.</i> 143, 352-363 (1981).
	IO	Cianciolo, G. J., Copeland T. D., Oroszlan S., Snyderman, R., <i>Science</i> 230, 453-45 (1985).
	IP	Clark D. H., and Casals J. Am., <i>J. Trop. Med. Hyg.</i> 7, 561-573 (1958).
	IQ	Clark et al., (1991) <i>JAVMA</i> , vol. 199, pp. 1433-1442.
	IR	Clewell and Helinski, (1969) <i>Proc. Natl. Acad. Sci.</i> , vol. 62, pp. 1159-1166.
	IS	Clewell, (1972) <i>J. Bacteriol.</i> , vol. 110, pp. 667-676.
	IT	Coccia et al., (1990) <i>J. Virology</i> , vol. 179, pp. 228-233.
	IV	Colinas et al., (1990) <i>Virus Research</i> , vol. 18, pp. 49-70.

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IX	Collins P. L., Purcell R. H., London W. T. et al., Vaccine 8, 154-168 (1990).
IY	Comparative Diagnosis of Viral Diseasees, vol. III, Ch. 6, p. 227, Academic Press, New York, 1981.
IX	Comprehensive Virology, Fraenkel-Conrad et al., vol. 3, Ch. 5, pp. 405, 427, Plenum Press, New York.
JA	Cooney E. L., Corrier A. C., Greenberg P. D., et al., Lancet 337, 567-572 (1991).
JB	Coulie et al., (1993) In: Specific Immunotherapy of Cancer with Vaccines, eds. Bystryn et al., pp. 113-119.
JC	Cox et al., (1977) Infect. Immun., vol. 16, pp. 754-759.
JD	Dales et al., (1990 Ann. Rev. Microbiol., vol. 44, pp. 173-192.
JE	Dalrymple, J. M. (1989) Vaccinia-vectored vaccines for exotic disease immunization programmes. In: Vaccinia-vectored Vaccines-Risks and Benefits, (ed. F. A. Murphy), 2nd Forum in Virology, Institut Pasteur, Elsevier, p. 479.
JF	Dantas et al., (1986) Virology, vol. 151, pp. 379-384.
JG	Database Derwent Biotechnology Abstracts, DBA Accession no. 89-03297, patent WO 880817, abstract only (Dec. 15, 1988).
JH	Davidoff et al., (1991) Cancer Res., vol. 51, pp. 2605-2610.
JI	Davidoff, A.M., J.D. Iglehart, and J.R. Marks, PNAS USA 89, 3439-3442 (1992).
JK	Davies et al., (1979) J. Infect. Dis., vol. 140, pp. 534-540.
JL	Davies et al., (1989) Proc. Natl. Acad. Sci., vol. 86, pp. 9163-9167.
JM	Davies et al., (1992) J. Virology, vol. 66, pp. 1943-1950.
JN	Delpyroux et al., (1988) J. Virol., vol. 62, pp. 1836-1839.
O	DeLuca, N. et al. 1982. Virology, vol. 122, pp. 422-423.
JP	DeNoronaha, F., Schafer, W., and Essex, M., Virology 85, 617-621 (1978).
JQ	Diallo et al., (1990) Vet. Micro., vol. 23, pp. 155-163.
JR	Douglas et al., (1984) N. Engl. J. Med., vol. 310, pp. 1551-1556.
JS	Dowbenko and Lasky, (1984) J. Virol., vol. 52, pp. 154-163.
JT	Downie et al. (1956) Ann. Rev. Microbiol. 10, 237-252.\
JU	Dratewka-Kos et al., (1984) J. Biochem., vol. 23, pp. 6184-6190.
JV	Dreyfuss et al., (1984) Mol. Cell. Biol., vol. 4, pp. 415-423.
JW	Drillien et al., (1978) J. Virol., vol. 28, pp. 843-850.
JX	Drillien et al., (1981) Virology, vol. 111, pp. 488-499.
JY	Drillien et al., (1988) Proc. Natl. Acad. Sci., vol. 85, pp. 1252-1256.
JZ	Edbauer et al., (1990) Virology, vol. 179, pp. 901-904.
KA	Eisel et al., (1986) H. EMBO J., vol. 5, pp. 2495-2502.
KB	Elder et al., (1983) J. Virol., vol. 46, pp. 871-880.

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KD	Elliot et al., (1991) Gen. Virol., vol. 72, pp. 1762-1779.
KE	Engelke et al., (1988) Proc. Natl. Acad. Sci., vol. 85, pp. 544-548.
KF	Ensinger et al., "Marker Rescue etc.", J. Virol. 48(2); 1983, 419-428.
KG	Esposito, J. J. and F. A. Murphy (1989) Infectious recombinant vectored virus vaccines, In: Vaccine Biotechnology 33, (ed. Bittle, J. L. and F. A. Murphy), Academic Press, p. 235.
KH	Fenner (1958) Virology 5, 502-529.
KI	Fenner (1959) Virology 8, 499-507.
KJ	Fenner, et al., (1987), In: Veterinary Virology, Chapter 21, Academic Press, pp. 403-404.
KK	Geigenmuller-Gnirke et al., (1991) Proc. Natl. Acad. Sci., vol. 88, pp. 3253-3257.
KL	Joklik et al., (1988) Vaccine, vol. 6, pp. 123-128.
KM	Joklik et al., (1990) In: Interferons in Virology, eds. Fields et al., pp. 383-410.
KN	Joklik, Bacteriological Reviews 30 (1966) 33-66.
KO	Kantor, J., K. Irvine, S. Abrams, P. Snoy, R. Olsen, J. Greiner, H. Kaufman, D. Eggensperger, and J. Schlom. Cnacer Res 52, 24 (1992).
KP	Kaplan et al., (1988) Mol. Cell. Biol., vol. 8, pp. 2435-2441.
KQ	Karacostas et al., (1989) Proc. Natl. Acad. Sci., vol. 86, pp. 8964-8968.
KR	Karupiah et al., (1990) J. Exp. Med., vol. 172, pp. 1495-1503.
KS	Karupiah et al., (1992) Scand. J. Immunol., vol. 36, pp. 99-105.
KT	Kato, S., M. Takahashi, S. Kameyama and J. Kamahora, Biken's Journal 2, 353-363 (1959).
KU	Katz et al., C.A. 89 #39241s (1978) of J. Antimicrob. Chemother. 1978 4(2): 159-162, Genetic Recombination Between Temperature Sensitive Mutant and IBT Resistant Mutant of Vaccinia Virus.
KV	Kaufman et al., (1989) Mol. Cell. Biol., vol. 9, pp. 946-958.
KW	Kaufman, B. M., Summers, P. L., Dubois, D. R., and Eckels, K. H., Am. J Trop. Med. Hyg. 36, 427-434 (1987).
KX	Keegan and Collett, (1986) J. Virology, vol. 58, pp. 263-270.
KY	Kensil et al., (1991) JAVMA, vol. 199, pp. 1402-1405.
KZ	Kieff, E., and Liebowitz, D., In Virology, Second Edition, eds. B. N. Fields, D. M. Knipe et al., (Raven Press, Ch. 67, 1889-1920 (1990).
LA	Kiely et al., (1984) Nature, vol. 312, pp. 163-166.
LB	Killington, R. A., J. Yeo, R. W. Honess, D. H. Watson, B. E. Duncan, I. W. Halliburton, and J. Mumford, J. gen. Virol. 37, 297-310 (1977).
LC	Kimura-kuroda and Yasui, (1988) K. Immunol., vol. 141, pp. 3606-3610.
LD	Kingsbury et al., (1978) Intervirology, vol. 10, pp. 137-152.
LE	Kingsbury et al., (1990) In: Virology, 2.sup.nd Edition, eds. Fields et al., pp. 1075-1089.
LF	Kitson et al. (1991) J. Virol. 65, 3068-3075.
LG	Klasse et al., (1988) Proc. Natl. Acad. Sci., vol. 85, pp. 5225-5229.

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LI	Klickstein et al., (1987) Preparation of Insert DNA from Messenger RNA, Current Protocols in Molecular Biology, eds. Ausubel et al., pp. 5.5.1-5.5.10.
LJ	Knapp, B. et al. 1989. Molecular & Biochemical Parasitol., vol. 32, pp. 73-84.
LK	Knauf, V. C., and Nester, E. W., Plasmid 8, 45-54 (1982).
LL	Kodama et al., (1967) J. Immunol., vol. 100, pp. 194-200.
LM	Kodama et al., (1989) J. Virol., vol. 63, pp. 4709-4714.
LN	Konishi et al., (1991) Virology, vol. 185, pp. 401-410.
LO	Kotwal and Moss (1988a) Nature, vol. 335, pp. 176-178.
LP	Kotwal and Moss, (1988b) Virology, vol. 167, pp. 524-537.
LQ	Kotwal and Moss, (1989b) J. Virol., vol. 63, pp. 600-606.
LR	Kotwal et al., (1989a) Virology, vol. 171, pp. 579-587.
LS	Kotwal et al., (1990) Science, vol. 250, pp. 827-830.
LT	Koup et al., (1989) Blood, vol. 73, pp. 1909-1919.
LU	Kriegler et al., (1988) Cell, vol. 53, pp. 45-53.
LV	Kunkel et al., (1987) Method in Enzym., vol. 154, pp. 367-382.
LW	Kunkel, (1985) Proc. Natl. Acad. Sci., vol. 82, pp. 488-492.
LX	Kurata K., J. Vet. Med. Sci. 33, 85-87 (in Japanese) (1980).
LY	Kuroda et al., (1986) EMBO, vol. 5, pp. 1359-1365.
LZ	Kuwert E. K., Barsenbach C., Werner J., et al., In Cell Culture Rabies Vaccines and their Protection Effect in Man, eds. Kuwert/Wiktor/Koprowski (International Green Cross-Geneva) pp. 160-167 (1981).
MA	Laemmli, (1970) Nature, vol. 227, pp. 680-685.
MB	Lai and Pogo, (1989) Virus Res., vol. 12, pp. 239-250.
MC	Lai et al., "Attenuated Deletion Mutants of Vaccinia Virus Lacking the Vaccinia Growth Factor are Defective in Replication in vivo," Microbial Pathogenesis, vol. 6, No. 3, pp. 219-226 (1989).
MD	Lake and Cooper, (1980) J. Gen. Virol., vol. 48, pp. 135-147.
ME	Lamb and Crawford, (1986) Mol. Cell. Biol., vol. 6, pp. 1379-1385.
MF	Lane et al., (1969) New Eng. J. Med., vol. 281, pp. 1201-1208.
MG	Laprevotte et al., (1984) J. Virol., vol. 50, pp. 884-894.
MH	Lathe et al., (1987) Nature, vol. 326, pp. 878-880.
MI	Le et al., (1988) Virus Genes, vol. 1, pp. 333-350.
MJ	Lecocq, J. P., M. P. Kieny, Y. Lemoine, R. Drillien, T. Wiktor, H. Koprowski and R. Lathe, In World's Debt to Pasteur, eds. Koprowski, H. and Plotkin, S. A., (Alan R. Liss, New York), 259-271 (1985).
MK	Levis et al., (1990) J. Virol., vol. 64, pp. 1726-1733.
ML	Li et al., (1989) J. Molec. Biochem. Parasitol, vol. 33, pp. 13-26.

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	MO	Lipman, D.J., and Pearson, W.R., Science 227, 1435-1441 (1985).
	MP	Liu, Y-N. C., A. Klaus, B. Kari, M. F. Stinski, J. Exhkardt, and R. C. Gehrz, J. Virol. 65, 1644-1648 (1991).
	MQ	Lopez et al., (1992) Immunology Today, vol. 13, pp. 495-500.
	MR	Lukacs et al., (1985) J. Virol., vol. 53, pp. 166-172.
	MS	Lutz et al., (1980) Cancer Res., vol. 40, pp. 3642-3651.
	MT	Macfarlan et al., (1986) J. Mol. Immunol., vol. 23, pp. 733-741.
	MU	Mackett et al Proc Natl Acad Sci USA vol. 79 pp. 7415-7419 (1982).
	MV	Mackett, M. and J. R. Arrand, EMBO J. 4, 3229-3235 (1985).
	MW	Makoff et al., (1989) N.F. Bio/Technology, vol. 7, pp. 1043-1046.
	MX	Mandecki, (1986) Proc. Natl. Acad. Sci., vol. 83, pp. 7177-7182.
	MY	Marsden et al., (1978) J. Virol., vol. 28, pp. 624-642.
	MZ	Marshall et al., (1992) J. Infect. Dis., vol. 165, pp. 381-384.
	NA	Mason et al., (1987b) Virol., vol. 180, pp. 294-305.
	NB	Mason, P. W., McAda, P. C., Mason, T. L., and Fournier, M. J., Virol. 161, 262-267 (1987B).
	NC	Massung et al, Virology 180:355-364, 1991.
	ND	Mathes et al., (1978) Nature, vol. 274, pp. 687-691.
	NE	Matthews, (1982b) Intervirology, vol. 17, pp. 42-44.
	NF	Mayr et al., (1975) Infection, vol. 3, pp. 6-14.
	NG	Mazzara et al., (1987) Vaccines, vol. 87, pp. 419-424.
	NH	McAda et al., (1987) Virology, vol. 158, pp. 348-360.
	NI	McClain, (1965) Aust. J. Exp. Biol. Med. Sci., vol. 43, pp. 31-44.
	NJ	McGeoch et al., (1987) J. Gen. Virol., vol. 68, pp. 19-38.
	NK	McGinnes et al., (1986) Virus Research, vol. 5, pp. 343-356.
	NL	McLaughlin-Taylor et al., (1988) J. Gen. Virol., vol. 69, pp. 1731-1734.
	NM	McMichael, A.J., Gotch, F.M., Noble, G.R., and Beare, P.A.S., New Engl. J. Med. 309, 13-17 (1983)
	NN	Meignier et al., (1987) J. Infect. Dis., vol. 155, pp. 921-930.
	NO	Melnick, Virology, Second Edition ed. B. N. Fields, (Raven Press, N.Y.), Chapter 21, 549-605, (1990).
	NP	Merz et al., (1980) J. Expr. Med., vol. 151, pp. 275-288.
	NQ	Messing, (1983) vol. 1, eds. Wu, Grossman, and Moldave, (Academic Press NY) pp. 20-78.
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	NT	Meulemans et al., (1988) Avian Patol., vol. 17, pp. 821-827.
	NU	Michel et al., (1988) Eur. J. Immunology, vol. 18, pp. 1917.
	NV	Milich et al., (1985) Science, vol. 228, pp. 1195-1199.
	NW	Milich et al., (1986) J. Immun. vol. 137, pp. 315-322.
	NX	Milich et al., (1987a) J. Immun., vol. 138, pp. 4457-4465.
	NY	Milich et al., (1987b) Nature, vol. 329, pp. 547-549.
	NZ	Milich et al., (1988) In: Viral Hepatitis and Liver Disease, pp. 645-649.
	OA	Miller, G., In: Virology, Second Edition, eds. Fields, B.N. et al. (Raven Press, Ltd., New York) pp. 1921-1958 (1990).
	OB	Nagai et al., (1980) Microbiol. Immunol., vol. 24, pp. 173-177.
	OC	Nagai, Y., H. D. Klenk, and R. Rott, Virology 72, 494-508 (1976).
	OD	Nakano et al. (1982) Proc. Natl. Acad. Sci. USA 79, 1593-1596.
	OE	Nazerian, K., E.A. Stephens, J.M. Sharma, L.F. Lee, M. Gailitis and R.L. Witter, Avian Diseases 21, 69-76 (1977).
	OF	Nettleton, P.F., and J.M. Sharpe, Vet. Rec. 107, 379 (1980).
	OG	Neurath et al., (1984) Science, vol. 224, pp. 392-395.
	OH	Neurath et al., (1986) Cell, vol. 46, pp. 429-436.
	OI	Neurath et al., (1987) Microbiological Sciences, vol. 4, pp. 45-51.
	OJ	Neurath et al., (1988) Adv. Vir. Res., vol. 34, pp. 65-142.
	OK	Neurath et al., (1989) Mol. Immun., vol. 26, pp. 53-62.
	OL	Nixon et al., (1988) Nature, vol. 326, pp. 484-487.
	OM	Norrby and Gollmar, (1975) Infect. and Immun., vol. 11, pp. 231-239.
	ON	Norrby and Oxman, (1990) In: Fields Virology, 2.sup.nd Edition, eds. Fields and Knipe, pp. 1013-1044.
	OP	Norrby et al., (1982) Archives of Virology, vol. 71, pp. 1-11.
	OQ	Nunberg et al., (1984a) Proc. Natl. Acad. Sci., vol. 81, pp. 3675-3679.
	OR	Nunberg et al., (1984b) J. Virol., vol. 49, pp. 629-632.
	OS	Oakes and Rosemond-Hornbeak, Infect. Immun., vol. 21, pp. 489-495.
	OT	Oakes, J., Davis, W., Taylor, J. and Weppner, W., Infect. Immun. 29, 642-649 (1980).
	OU	Ogawa et al., (1990) Vaccine, vol. 8, pp. 486-490.
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OZ	Oya A. Jpn. J. Med. Sci. Biol., Suppl. 20, 26-30 (1967).
PA	Paez et al., (1984) Virology, vol. 134, pp. 12-28.
PB	Paez, E., S. Dallo and M. Esteban, Proc. Natl. Acad. Sci. USA 82, 3365-3369 (1985).
PC	Palumbo, G. J., D. J. Pickup, T. N. Fredrickson, L. J. McIntyre and R. M. L. Buller, Virology 172, 262-273 (1989).
PD	Pande, H., K. Campo, B. tanamuchi, and J. A. Zaia, Virology 182, 220-228 (1991).
PE	Panicali et al. (1981) J. Virol. 37, 1000-1010.
PF	Panicali et al. (1982) Proc. Natl. Acad. Sci. USA 79, 4927-4931.
PG	Panicali et al. (1983) Proc. Natl. Acad. Sci. 80, 5364-5368.
PH	Paoletti E et al. "Construction of Live Vaccine Using Genetically Engineered Poxviruses: Biological Activity of Vaccinia Virus Recombinants Expressing the Hepatitis B Virus Surface Antigen and the Herpes Simplex Virus Glycoprotein D" Proceedings of the National Academy of Sciences of USA, vol. 81, Jan. 1, 1984, pp. 193-197, XP000651699.
PI	Parrish, (1990) Adv. Virus Res., vol. 38, pp. 403-450.
PJ	Parrish, C. R., Aquadro, C. F., Strassheim, M. L., Evermann, J. F., Sgro, J-Y., and Mohammed, H. O., J. Virology 65, 6544-6552.
PK	Parrish, et al., (1988) Virology, vol. 166, pp. 293-307.
PL	Patel and Pickup, (1987) EMBO, vol. 6, pp. 3787-3794.
PM	Patel et al., (1988) Proc. Natl. Acad. Sci., vol. 85, pp. 9431-9435.
PN	Pathak et al., (1988) Mol. Cell. Biol., vol. 8, pp. 993-995.
PO	Pattnaik et al. (1990) J. Virol. 64, 2948-2957.
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	RY	Scheid and Choppin, (1974) Virology, vol. 57, pp. 475-490.
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	TI	Stahl and Murray, (1989) Proc. Natl. Acad. Sci., vol. 86, pp. 6283-6287.
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XE	Campbell, J. et al. Tandem Repeated Sequences within the Terminal Region of the Fowlpox Virus Genome", J. Gen Virol (1989) 70, 145-454
XF	Weir, J. Proc. Natl Acad Sci vol 79, pp 1210-1214, 1982
XG	
XH	
XJ	

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.